

Method and device for optimal usage of transmission capacity in synchronous bidirectional ring networks

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Abstract

The communication network has a bidirectional glass fibre ring mains and each conductor handles two signals of different wavelengths. In one example a 1310 nm wavelength signal is used as an operating signal and a 1550 nm signal as a reserve signal. Each network element ANEÜ has interfaces for transmissions in the ring in east and west directions. Input and outputs are handled via optical multiplexer/demultiplexer stages. The network is such that for fault free conditions the first wavelength signal can be used for exchanges between network elements while at the same time the second wavelength may also be used to maximise transmission capacity.

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